

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

TITLE OF INVENTION Heat Exchanger and/or Chemical Reactor

APPLICANT

Wolverhampton WV10 6QB

all designated States

all designated States

State (that is, country) of nationality:

SYMONDS, Keith Thomas

Wolverhampton WV8 2EN

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Box No. I

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United Kingdom

This person is applicant

for the purposes of:

Box No. III

Codsall

Fordhouses

For receiving Office use	, only	
International Application No.		
International Filing Date		
NT	at out a ultimatemb	
Name of receiving Office and "PCT International Application"		

Applicant's or agent's file reference (if desired) (12 characters maximum) P04047PCT This person is also inventor Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Telephone No. Facsimile No. Chart Heat Exchangers Limited Partnership Teleprinter No. Applicant's registration No. with the Office State (that is, country) of residence: United Kingdom (GB) the United States of America only all designated States except the United States of America the States indicated in the Supplemental Box FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office State (that is, country) of residence: United Kingdom (GB) the United States of America only the States indicated in the Supplemental Box all designated States except the United States of America Further applicants and/or (further) inventors are indicated on a continuation sheet. AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE The person identified below is hereby/has been appointed to act on behalf common representative agent of the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name; for a legal entity, full official designation.
The address must include postal code and name of country.) Telephone No. 0121 454 4962 Facsimile No. 0121 454 4523 Teleprinter No. Agent's registration No. with the Office

Form PCT/RO/101 (first sheet) (March 2001; reprint July 2003)

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Laurence Shaw & Associates Limited

See Notes to the request form

Box No.	V DESIGNATION OF STATES	Mark the applicable check-boxes below; at least one must be marked		
The following designations are hereby made under Rule 4.9(a):				
	Regional Patent			
AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line)				
E EA		zerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian		
EP European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT				
OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)				
		treatment desired, specify on dotted line):		
		HR Croatia		
	Antigua and Barbuda Albania	HU Hungary		
		ID Indonesia II PH Philippines		
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X AZ	Azerbaijan 🔀	JP Japan RU Russian Federation		
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Check-bo	oxes below reserved for designating Stat	tes which have become party to the PCT after issuance of this sheet:		
Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)				

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Sheet No.		-03

Box No. VI PRIORITY CLAIM					
The priority of the following earlier application(s) is hereby claimed:					
Filing date	Number of earlier application	Where earlier application is:			
of earlier application (day/month/year)		national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office	
item (1) 05/09/2002	0220652.2	GB .			
item (2)		·	·		
item (3)	·				
item (4)					
item (5)					
Further priority claims	are indicated in the Suppleme	ental Box.			
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as: X all items item (1) item (2) item (3) item (4) item (5) Other, see Supplemental Box					
* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):					
Box No. VII INTERNATIONAL SEARCHING AUTHORITY					
Choice of International Sea international search, indicate	arching Authority (ISA) (if t the Authority chosen; the two	wo or more International So- letter code may be used):	earching Authorities are	competent to carry out the	
ISA / EPO					
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):					
Date (day/month/year)	Numb	oer Count	try (or regional Office)		
Box No. VIII DECLARATIONS					
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Number of check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations					
Box No. VIII (i)	Declaration as to the identit	ty of the inventor		: .	
Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent :			:	
Box No. VIII (iii)	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application				
Box No. VIII (iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America)				
Box No. VIII (v)	Declaration as to non-preju	udicial disclosures or excep	ptions to lack of novelty	· : .	

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Box No. IX CHECK LIST; LANGUAGE OF FILING					
This international application contains: (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-baxes below and indicate in right column the number of each item):	Number of items			
request (including	1. Tee calculation sheet	:			
declaration sheets) : 4	2. original separate power of attorney	;			
description (excluding sequence listings and/or	3. original general power of attorney	;			
tables related thereto) : 32	4. copy of general power of attorney; reference number,				
claims : 7	if any:				
abstract : 1	5. statement explaining lack of signature	:			
drawings 16	6. priority document(s) identified in Box No. VI as item(s):	:			
Sub-total number of sheets: 60 sequence listings:	7. Translation of international application into (language):				
tables related thereto : (for both, actual muniber of	8. separate indications concerning deposited microorganior other biological material				
sheets if filed in paper form, whether or not also filed in	9. sequence listings in computer readable form (indicate type and number of carriers)	,			
computer readable form; see (c) below)	(i) copy submitted for the purposes of international sea	rch under			
Total number of sheets : 60	Rule 13ter only (and not as part of the international (ii) (only where check-box (b)(i) or (c)(i) is marked in left additional copies including, where applicable, the c				
(b) only in computer readable form (Section 801(a)(i))	purposes of international search under Rule 13ter	:			
(i) ☐ sequence listings (ii) ☐ tables related thereto	(iii) together with relevant statement as to the identity of copies with the sequence listings mentioned in left of	the copy or clumn			
(c) also in computer readable form (Section 801(a)(ii))	10. tables in computer readable form related to sequence list (indicate type and number of carriers)	stings			
(i) sequence listings	(i) copy submitted for the purposes of international sea Section 802(b-quater) only (and not as part of the ir	rch under sternational			
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	application) (ii) (only where check-box (b)(ii) or (c)(ii) is marked in lef additional copies including, where applicable, the copurposes of international search under Section 802(column) opy for the b-guater)			
sequence listings:	(iii) together with relevant statement as to the identity of copies with the tables mentioned in left column				
☐ tables related thereto: (additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. X other (specify): Patents Form, 23/77				
Figure of the drawings which should accompany the abstract:	Language of filing of the international application: English				
	r, agent or common representative	Company of the second			
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request). Laurence Shaw & Associates Limited Applicant's Representative					
· · · · · · · · · · · · · · · · · · ·	For receiving Office use only	 -			
Date of actual receipt of the purported international application:		2. Drawings:			
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:					
4. Date of timely receipt of the required corrections under PCT Article 11(2):					
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid				
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